

RESISTIVE POWER DIVIDER

DATA SHEET

PART SERIES: RPD0312F

SHEET 1 OF 3
Dwg 1015375EN 15-1471
Revision B

FEATURES

Low Profile Surface Mount Package
Simplified Thermal Management
Power Dividing

APPLICATIONS

Power Amplifiers
Antenna Feeds
Phased Array Radar
Satellites
Instrumentation



GENERAL DESCRIPTION

EMC Technology offers high performance 2 to 4 Way resistive power dividers ranging from DC to 12 GHz in a low profile, surface mount package. These devices are designed for demanding applications where excellent broadband response and power handling are required.

ORDERING INFORMATION

Part Identifier: **RPD0312F**

SPECIFICATIONS

1.0 ELECTRICAL

Frequency	Division	Attenuation	VSWR	Impedance	Power Handling
DC - 6 GHz	3	-10.0 dB Typical	1.3:1 Typical	50 Ω	1 Watt CW
6 - 12 GHz	3	-10.0 dB Typical	2:1 Typical	50 Ω	1 Watt CW

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

3.0 MARKING

0312, Pin 1 Indicator

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.

Visual and Mechanical Examination for Conformance To Outline Drawing Requirements.

Measure Amplitude Balance and VSWR

Test Data Requirements

No Test Data Required

Data Retention – 12 months

5.0 PACKAGING

Standard: Tape and Reel

Note: Specifications are subject to change.

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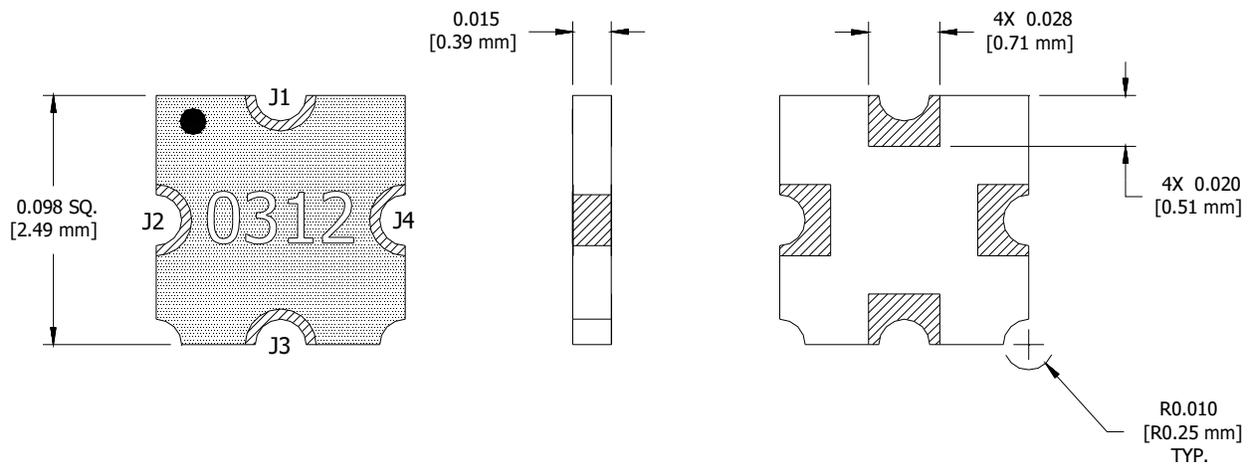
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6.0 MECHANICAL

Substrate Material: Alumina
Terminal Material: Thick film, Silver plated
Resistive Material: Thick film

PIN CONFIGURATION

Port	DESCRIPTION
J1	INPUT
J2	-10 dB Output
J3	-10 dB Output
J4	-10 dB Output



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

Note: Specifications are subject to change.

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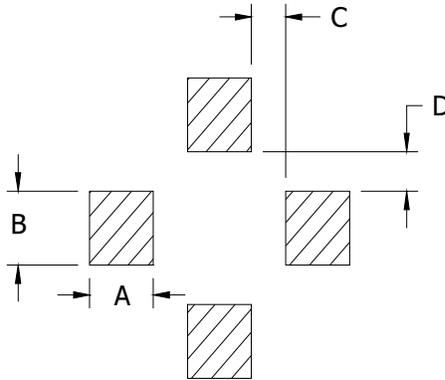
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7.0 SUGGESTED LAND PATTERN



DIMENSION							
INCHES				METRIC (mm)			
A	B	C	D	A	B	C	D
0.028	0.028	0.015	0.015	0.71	0.71	0.38	0.38